

Volvo Car Corporation Gothenburg, Sweden

 Instruction No
 Version
 Part. No.

 31408455
 1.2
 31399352

Parking assistance, pilot (R-design)

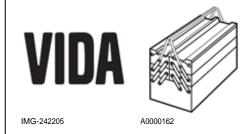


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Special tools	
	999 7234 Hole stamp
	Tool number:999 7234
	Tool description:Hole stamp
	Tool boards:80
	951 2950 Glue gun (kit)
	Tool number:951 2950
	Tool description:Glue gun (kit)
	Tool boards:08
	951 2932 Tension spring
	Tool number:951 2932
	Tool description:Tension spring
	Tool boards:80

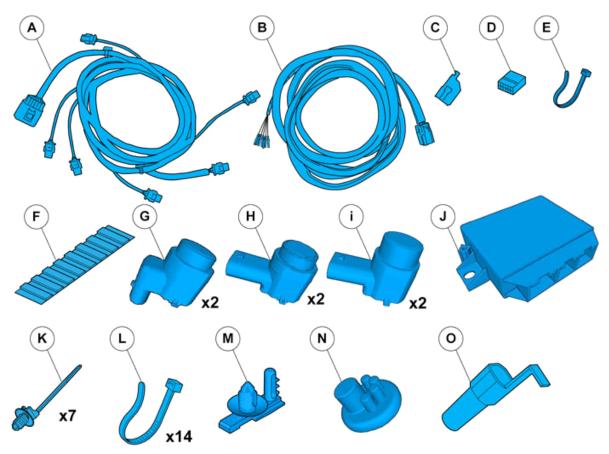
Materials	
Designation	Part number
Isopropanol	1161721
Sand paper P1000	
Volvo Original Touch-up paint	
Varnish 2-component	31335447
Primer	1161765
Mixing pipe	1161730
Glue	9511027
Electrical tape	

### Equipment



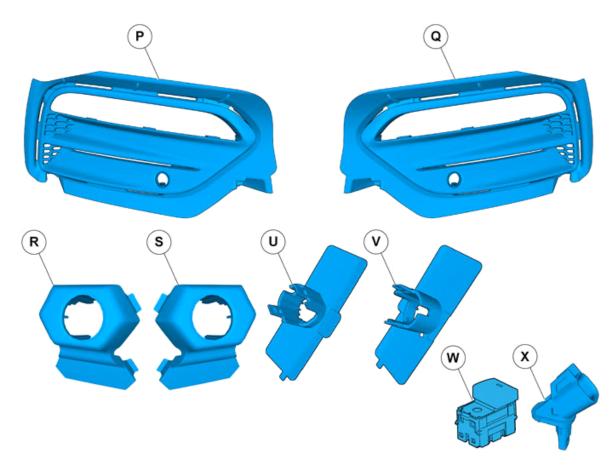


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IMG-380113

Installation instructions, accessories Volvo Car Corporation Gothenburg, Sweden



IMG-380567

OLV



1

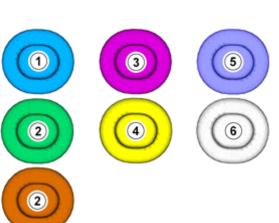
2

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36656-2 Parking assistance, front, R-design Information Read through all of the instructions before starting installation. Notifications and warning texts are for your safety and to minimise the risk of something breaking during installation. Ensure that all tools stated in the instructions are available before starting installation. Certain steps in the instructions are only presented in the form of images. Explanatory text is also given for more complicated steps. In the event of any problems with the instructions or the accessory, contact your local Volvo dealer. **Further information** These installation instructions show installation on left hand drive cars. When installing on right-hand drive cars, perform the procedures on the opposite side and/or mirrored. Where the procedure differs, the right-hand version is also shown with text and image. **Color symbols** 



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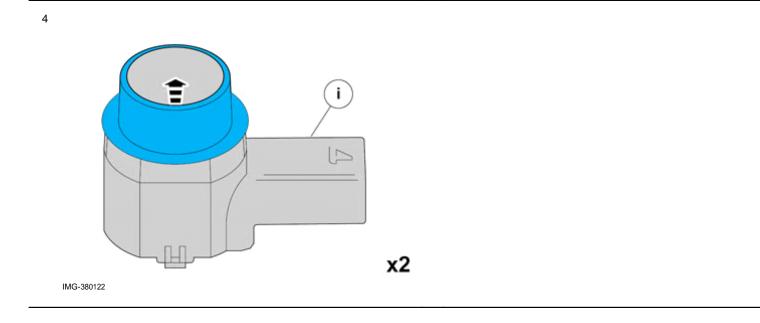
IMG-363036

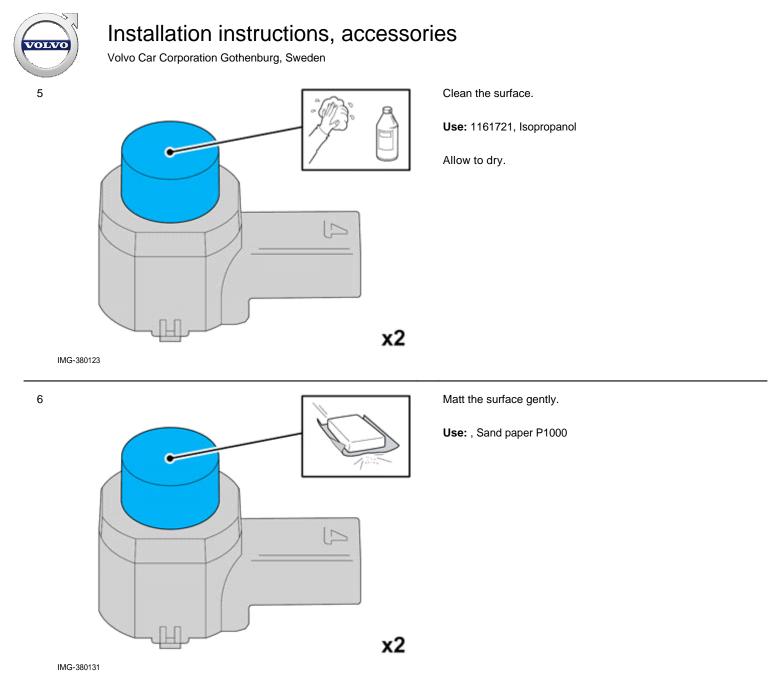
#### Note!

This colour chart displays (in colour print and electronic version) the importance of the different colours used in the images of the method steps.

- Used for focused component, the component with which you will do something.
- Used as extra colors when you need to show or differentiate additional parts.
- Used for attachments that are to be removed/installed. May be screws, clips, connectors, etc.
- Used when the component is not fully removed from the vehicle but only hung to the side.
- Used for standard tools and special tools.
- Used as background color for vehicle components.

#### Paintwork





<image><image><image><image><image><image><image><image>

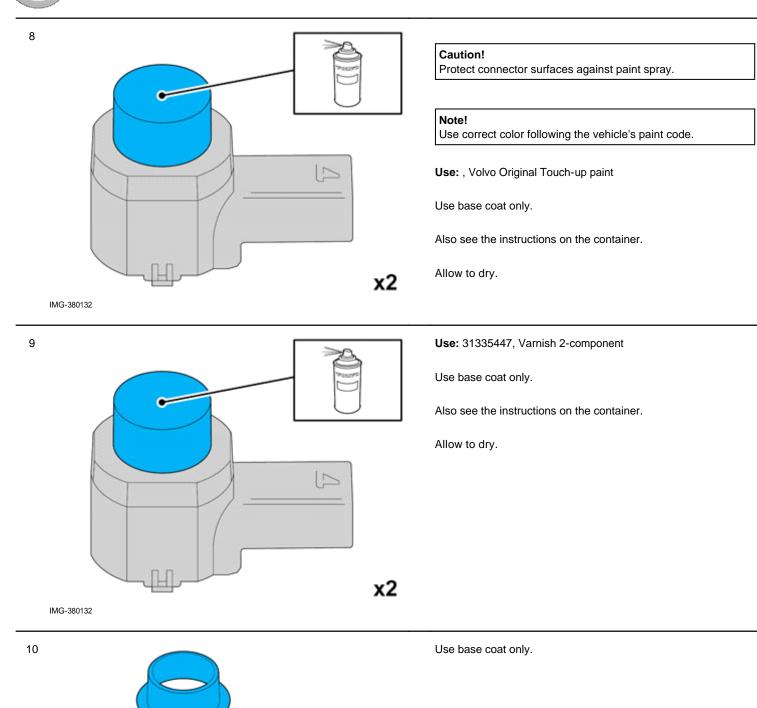
Clean the surface.

Use: 1161721, Isopropanol

Allow to dry.



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Π

5



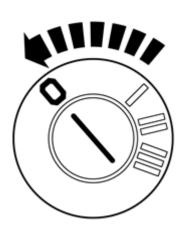
11

# Installation instructions, accessories

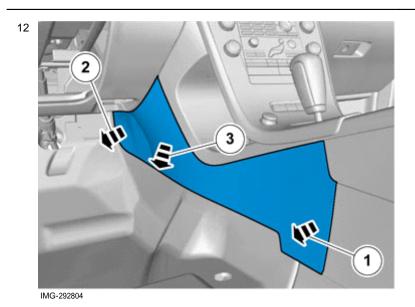
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#### Removal

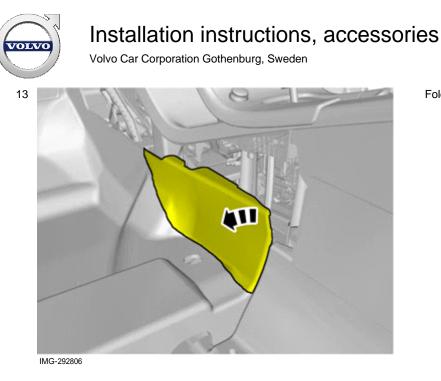
Set the ignition key to position 0.



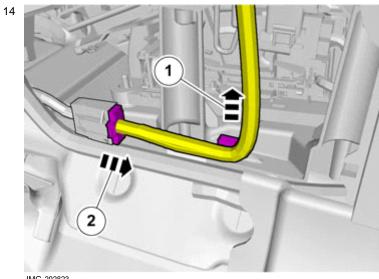
IMG-332193



Remove the panel.



Fold the carpet to the side.

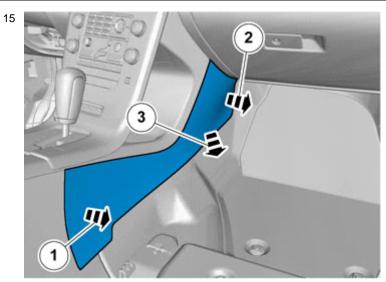


Unhook the cable harness clips.

Disconnect the connector.

Remove the panel.

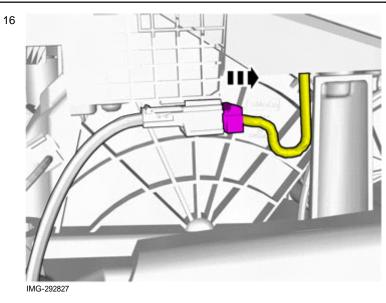
IMG-292823

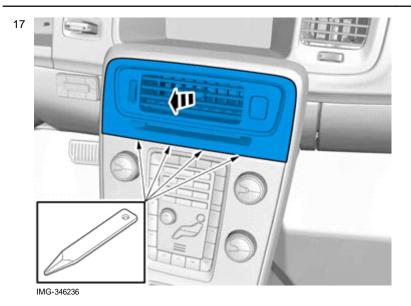


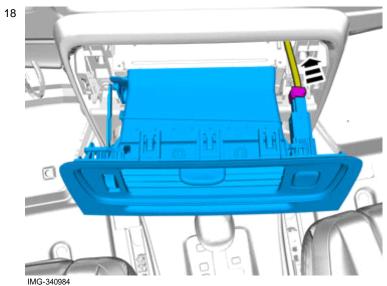
IMG-292826



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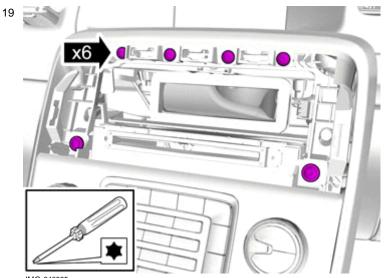


Disconnect the connector.

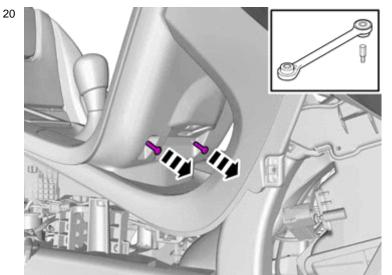
Disconnect the connector, if applicable.



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IMG-340985



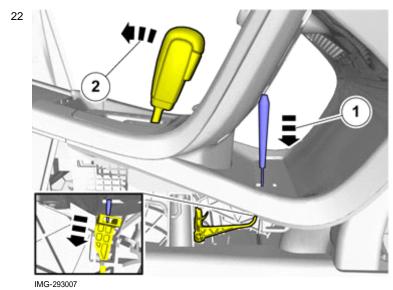
Remove the screws.

Remove the screws.

IMG-355818

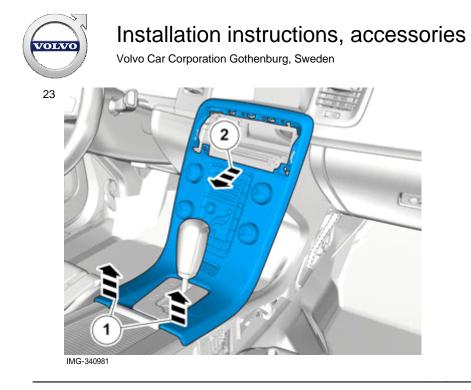
#### Cars with automatic transmissions



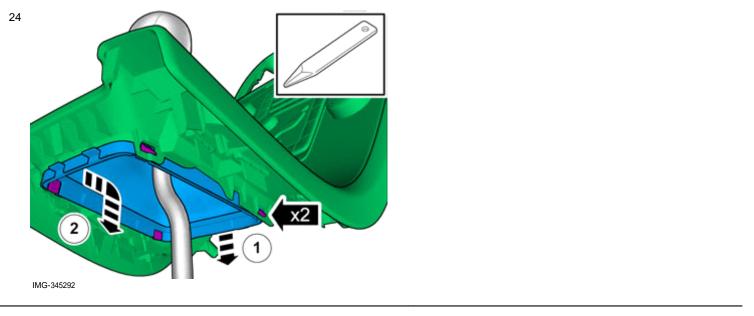


Release the shift-lock function.

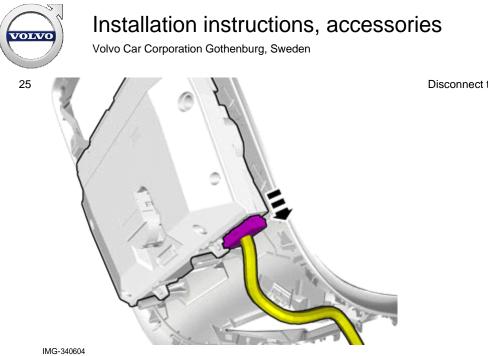
All vehicles

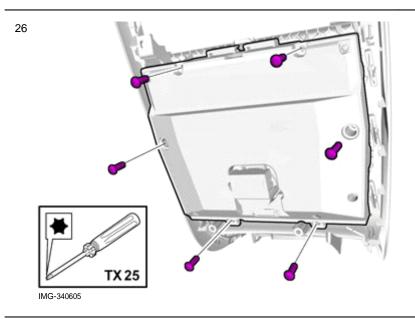


#### Cars with manual transmissions



All vehicles





27



IMG-340607

Disconnect the connector.

Remove the marked part.

Remove the screws.



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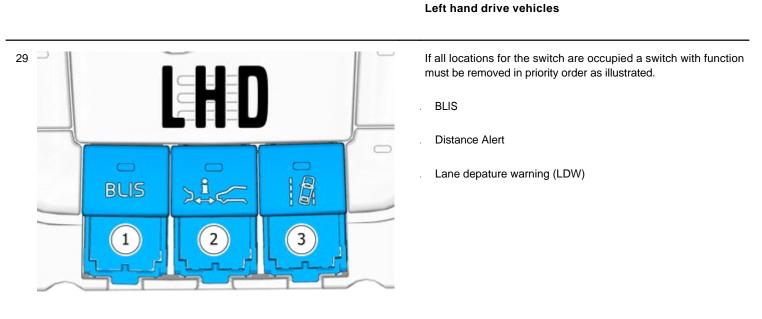


Note!

Orientation view

Select the first free position closest to the driver.

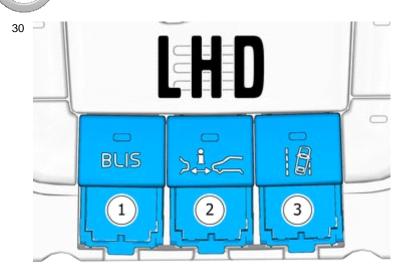
IMG-381763



IMG-396256

#### Right-hand drive vehicles

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If all locations for the switch are occupied a switch with function must be removed in priority order as illustrated.

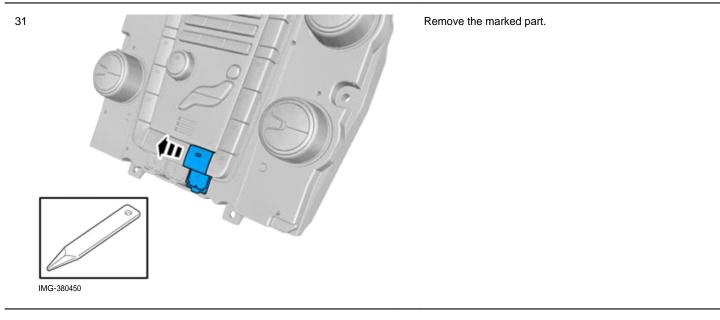
BLIS

- Distance Alert
- Lane depature warning (LDW)

IMG-396256

OLVO

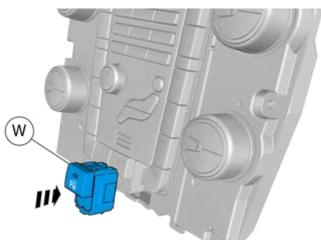




Accessory installation



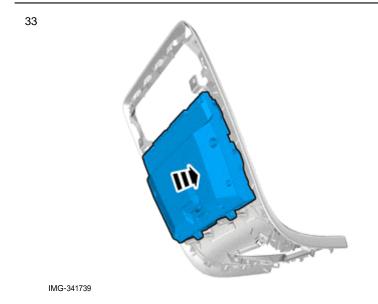
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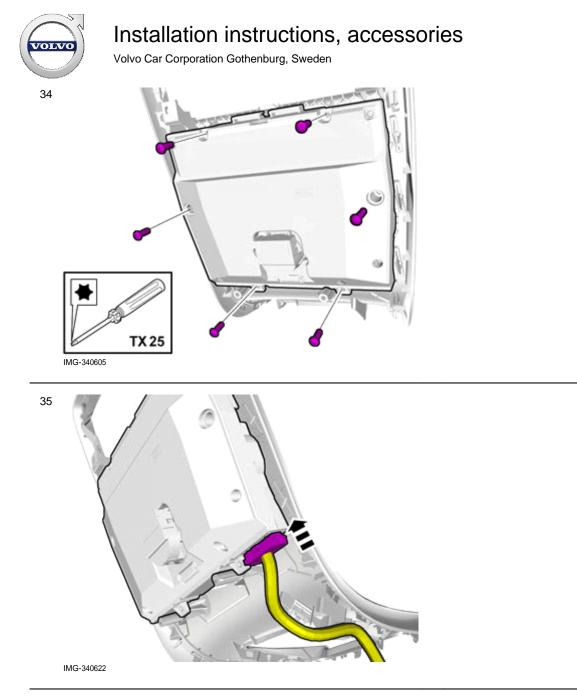


IMG-380454

Installation

Install component that comes with the accessory kit.





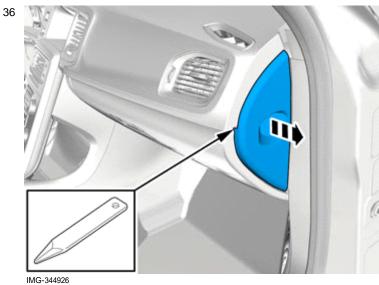
Removal



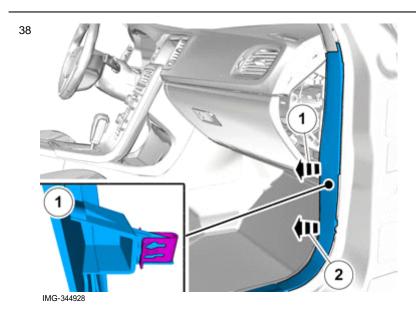
37

### Installation instructions, accessories

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IMG-344927



Remove the panel.

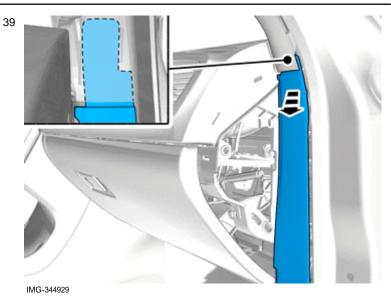
Remove the weatherstrip.

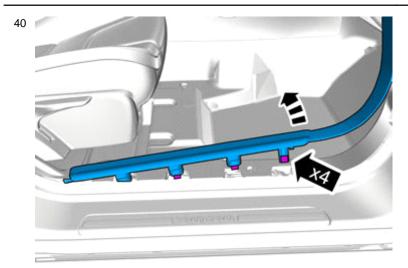
Caution!

The front and upper sill panel must be removed and installed as one unit.

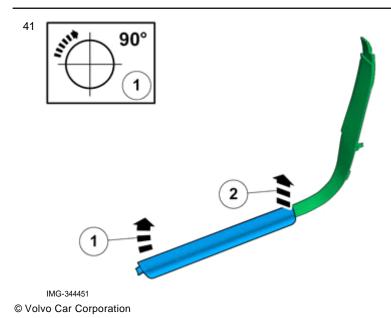


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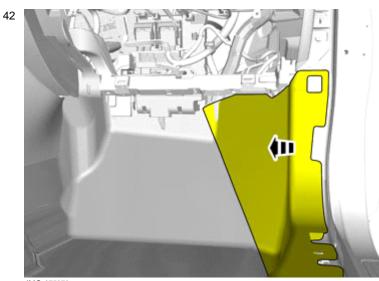


IMG-344930

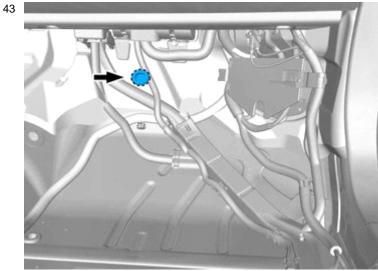




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IMG-375379

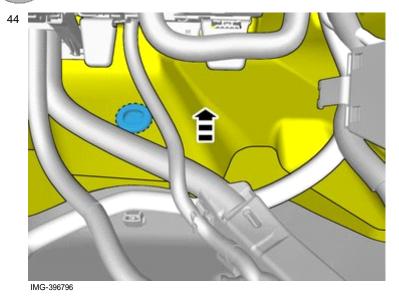


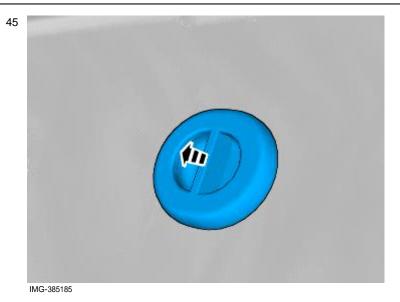
Fold the carpet to the side.

Locate the rubber grommet under the insulating mat.

IMG-396281



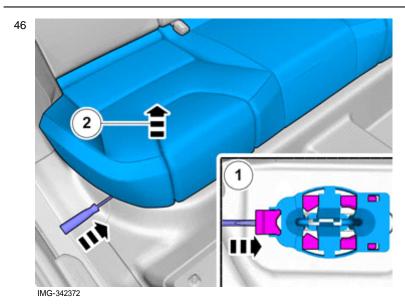




Fold the insulation to one side.

Remove the marked part.

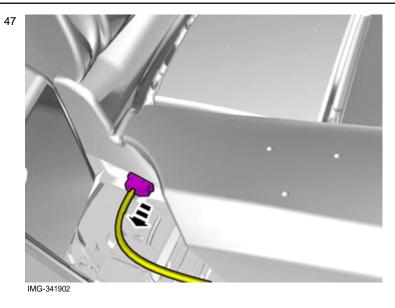
The part is not to be reused.



Repeat on the other side.



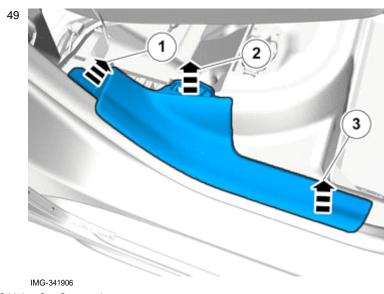
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Disconnect the connector, if applicable.

Repeat on the other side.

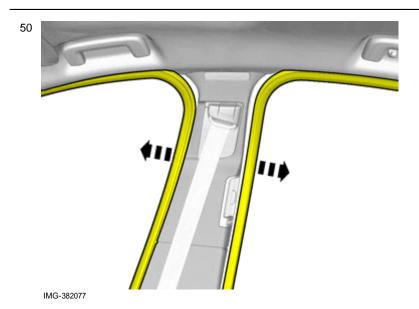
48 IMG-360124



Remove the panel.

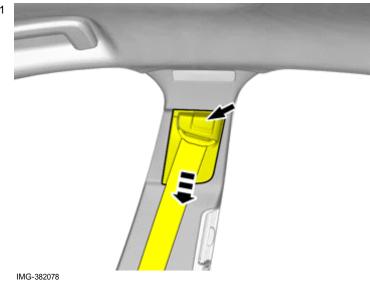


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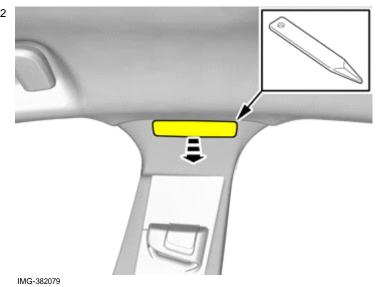
Remove the weatherstrips.

51



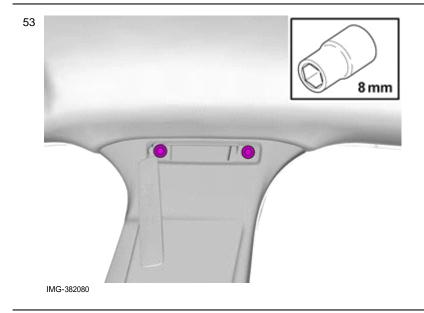


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Detach the panel.

Remove the screws.

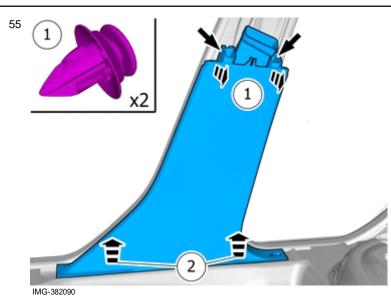


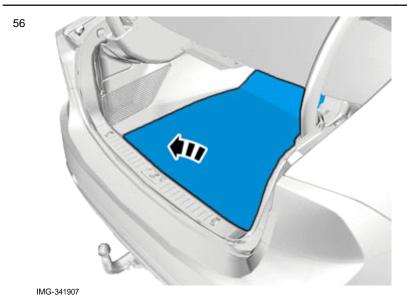
54

Remove the panel.



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57 57 10 10 10 10 10 10 10 10

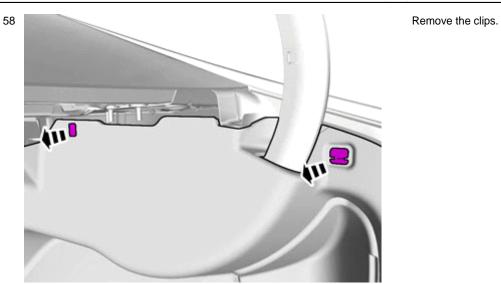
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Remove the panel.

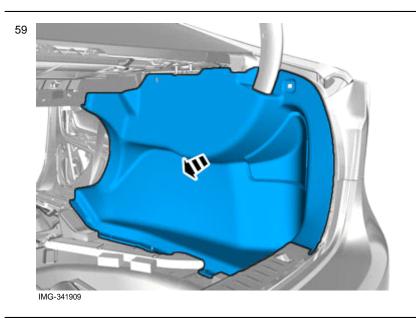
Remove the nuts.



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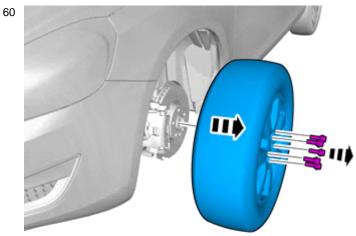
IMG-341910



Remove the panel.



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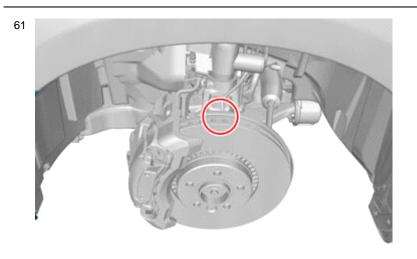


Caution!

Left side! This step applies also to right-hand drive vehicles!

Tightening torque: Wheel to wheel hub Stage 1: 20 Nm Stage 2: 140 Nm

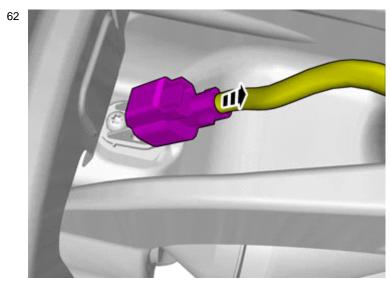
IMG-352021



Note! Orientation view

Disconnect the connector.

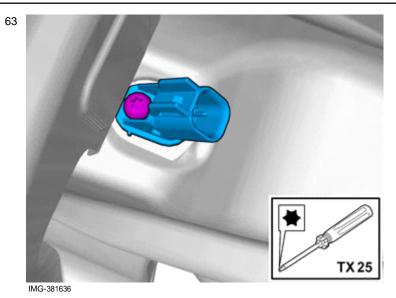
IMG-381634



IMG-381635



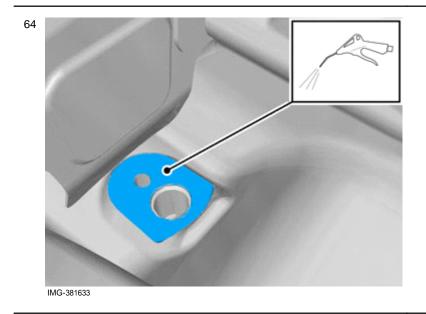
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Remove the screw.

Remove the marked part.

#### Accessory installation



#### Caution!

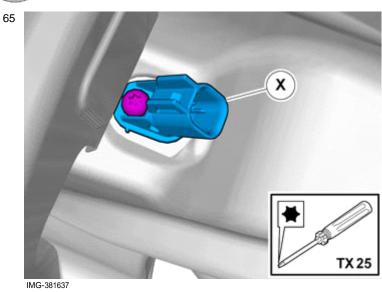
Left side! This step applies also to right-hand drive vehicles!

#### Note!

Make sure that the mating faces are clean and free of foreign material.

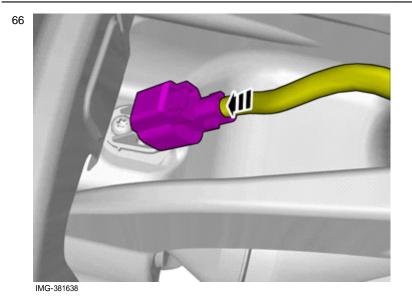


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Install component that comes with the accessory kit.

Tightening torque: M5 , 5 Nm

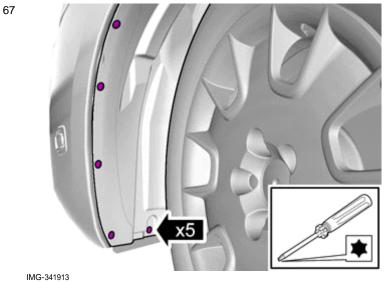


Connect the connector.

Removal

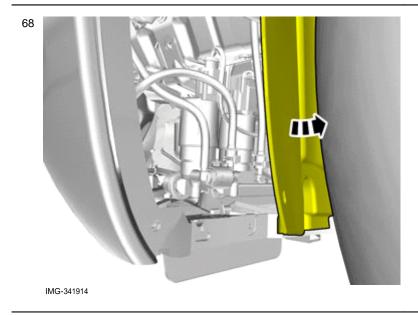


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Remove the screws.

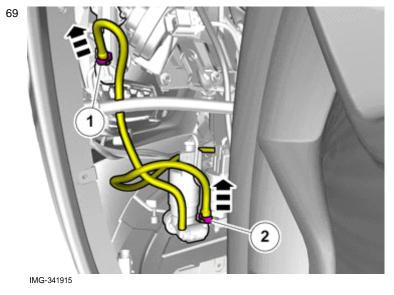
#### Vehicles with headlamp washers



Fold the wing liner to one side.



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Warning!

Be prepared to collect escaping fluid.

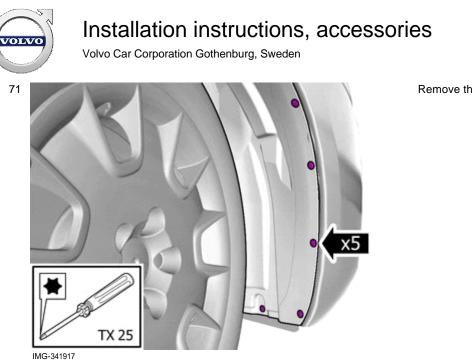
#### Note!

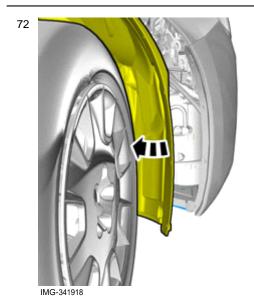
Tape the hose high up on the washer fluid reservoir to prevent washer fluid from coming out.

Take a piece of washer hose. Tie a knot in it and place it on the washer pump to prevent the washer fluid reservoir from emptying.

#### Right-hand drive vehicles

 Turn the wheel inwards.





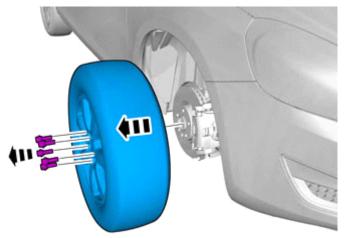
Remove the screws.

Fold the wing liner to one side.

Left hand drive vehicles

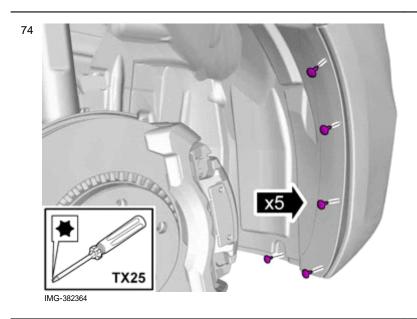


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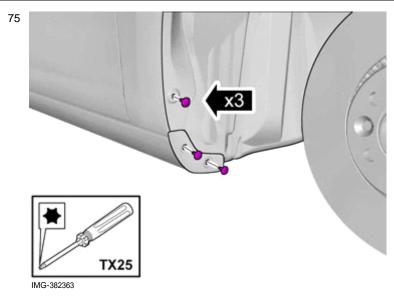
Tightening torque: Wheel to wheel hub Stage 1: 20 Nm Stage 2: 140 Nm

IMG-382362



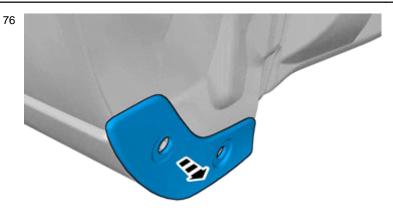
Remove the screws.

Remove the screws.



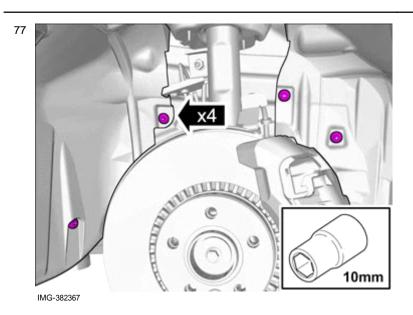


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Remove the marked part.

IMG-382366



Remove the marked part.

Remove the nuts.

IMG-382368 © Volvo Car Corporation



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#### All vehicles

Locate the connector.

IMG-378274

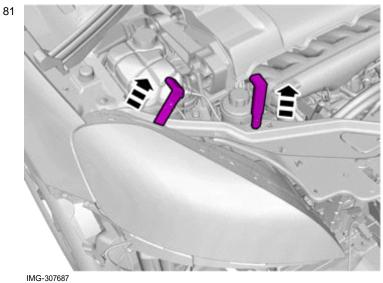
80

- Depress the locking device.
- Disconnect the connector.

IMG-378285



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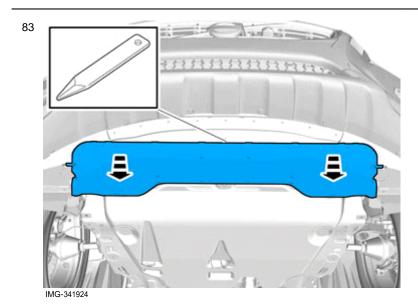
Release the locks.



III)

Remove the marked part.

Disconnect the connector.



Remove the marked part.

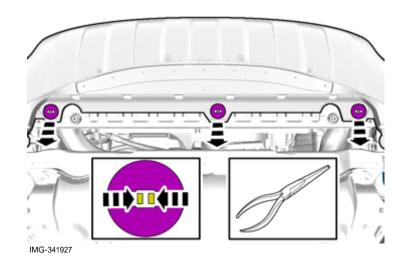
IMG-307688

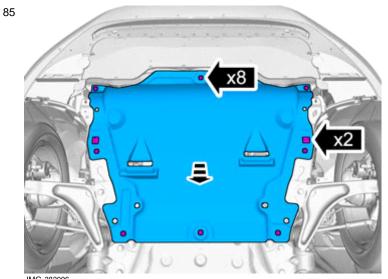


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84

Remove the clips.





Remove the clips.

Remove the clip.

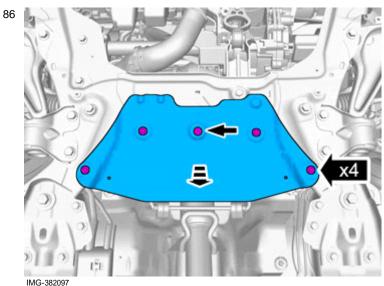
Remove the screws.

Remove the marked part.

Remove the screws.

Remove the marked part.

IMG-382096



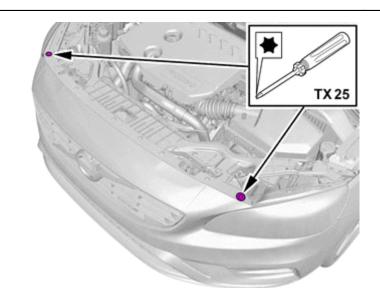
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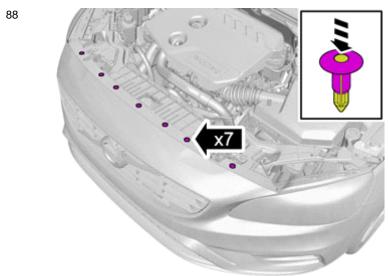


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IMG-379127



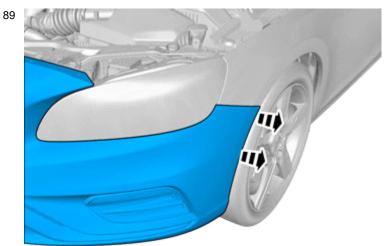
IMG-379126

Remove the screws.

Remove the clips.

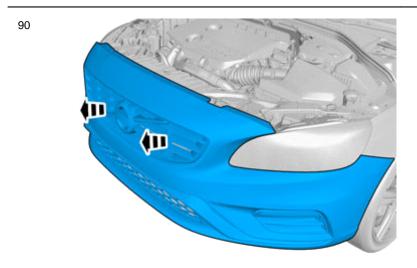


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Repeat on the other side.

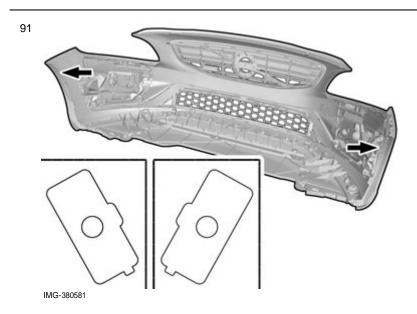
IMG-379129



#### Caution!

Place the Bumper Cover on a suitable surface.

IMG-379128

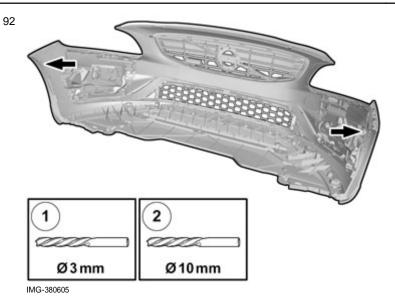


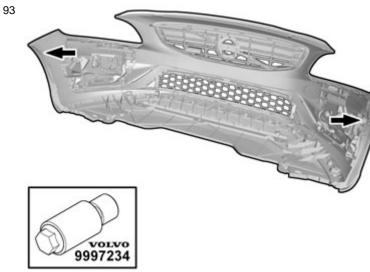
Locate the markings for the positions.

Mark the centre.

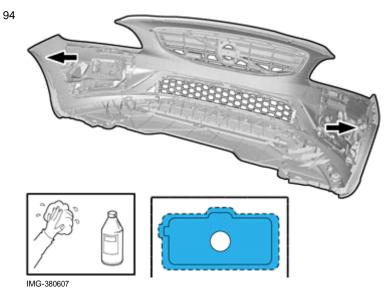


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IMG-380606



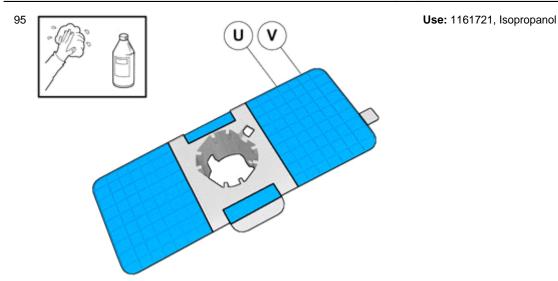
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Use special tool: T9997234, Hole stamp

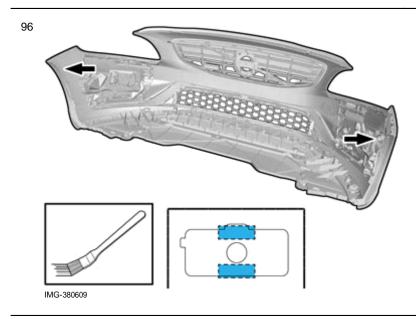
Use: 1161721, Isopropanol



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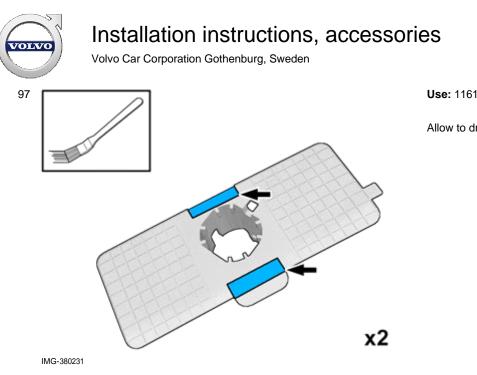


IMG-380230



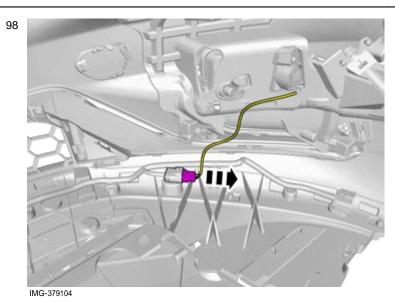
#### Use: 1161765, Primer

Allow to dry for at least 2 minutes, but no more than 60minutes.



Use: 1161765, Primer

Allow to dry for at least 2 minutes, but no more than 60minutes.



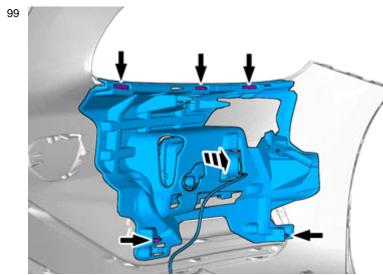
#### Disconnect the connector.

Repeat on the other side.

Release the catches.

Remove the panel.

Repeat on the other side.



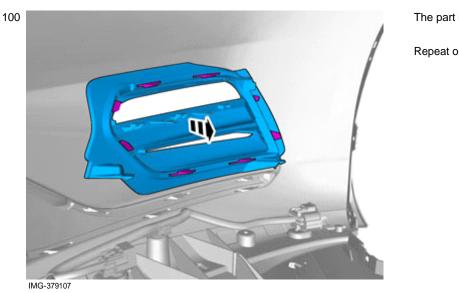
IMG-379105



101

# Installation instructions, accessories

Volvo Car Corporation Gothenburg, Sweden



The part is not to be reused.

Repeat on the other side.

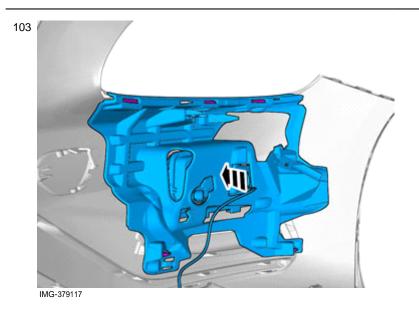
Accessory installation

 WG-37913



Volvo Car Corporation Gothenburg, Sweden

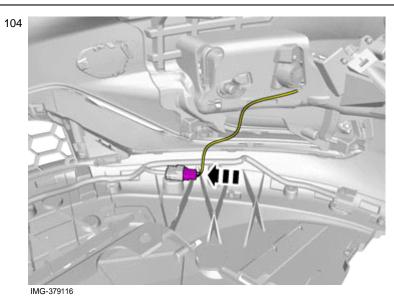




Repeat on the other side.

Reinstall the removed part.

Repeat on the other side.



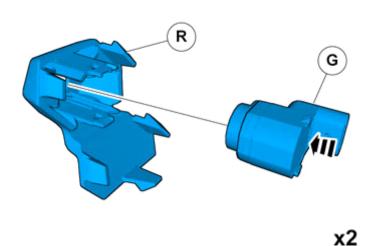
Connect the connector.

Repeat on the other side.

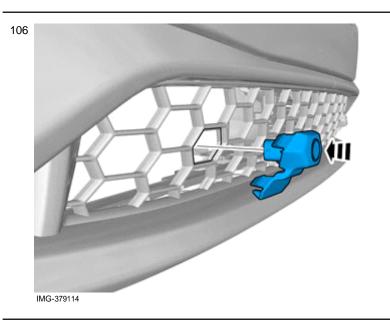


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105

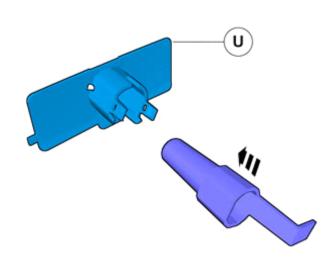


IMG-379115



Repeat on the other side.

107

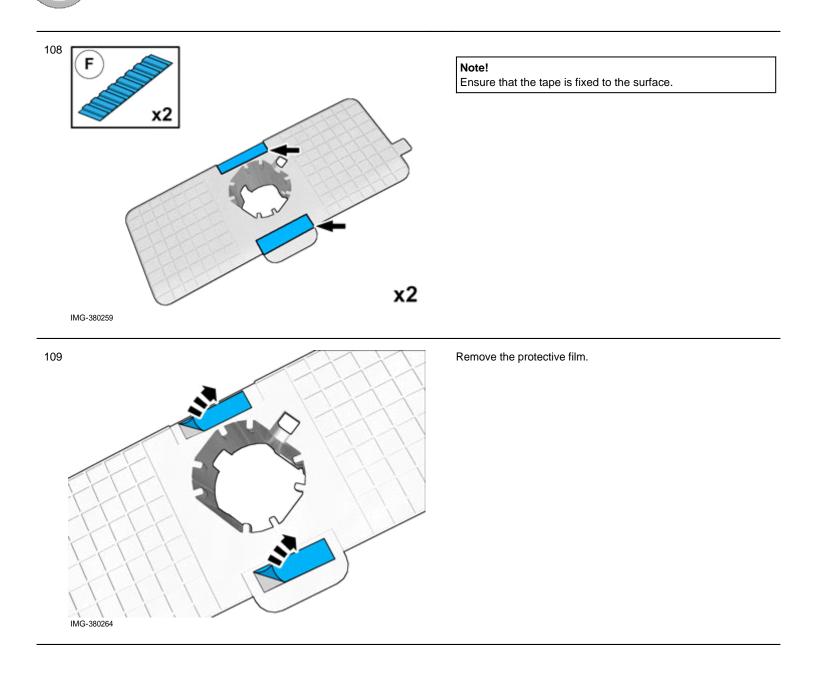


**Note!** Prepare and install one holder at a time.

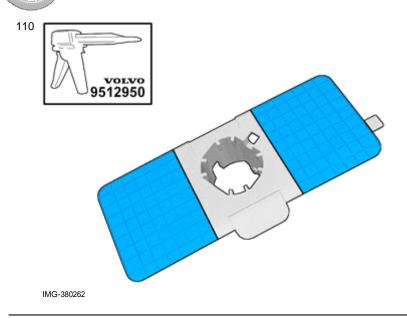


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OL



Volvo Car Corporation Gothenburg, Sweden



Warning! Wear protective gloves.

Warning!

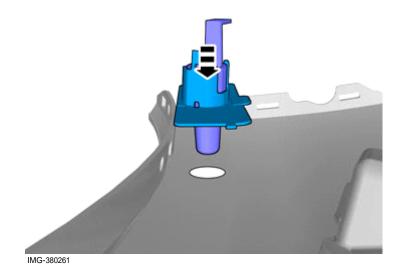
Make sure to provide adequate ventilation.

Use special tool: T9512950, Glue gun (kit)

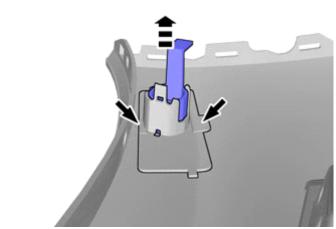
**Use:** 1161730, Mixing pipe **Use:** 9511027, Glue

111

/OLN



112



#### Note!

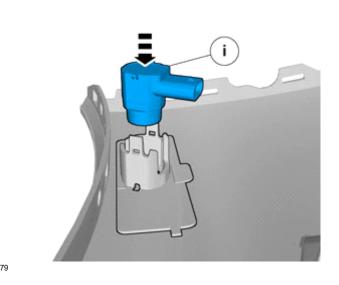
Hold the part securely at the marker arrows when removing the tool.



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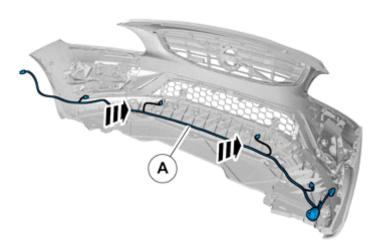


Repeat on the other side.

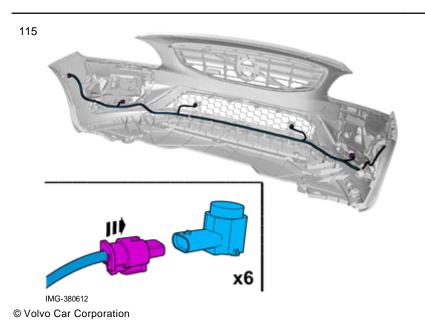


IMG-380279

114



IMG-379118



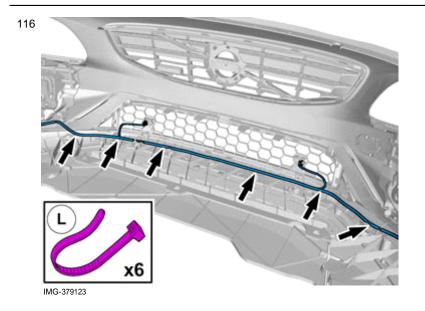
Put the wiring in the Bumper cover without installing the wiring.

RHD: The cable harness is positioned mirrored.

Connect the connectors.



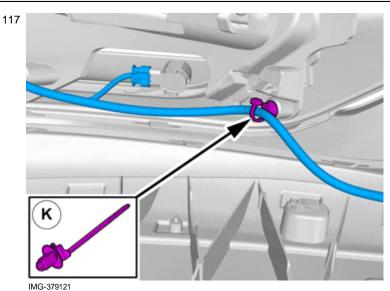
Volvo Car Corporation Gothenburg, Sweden



Position/route the cable harness as illustrated.

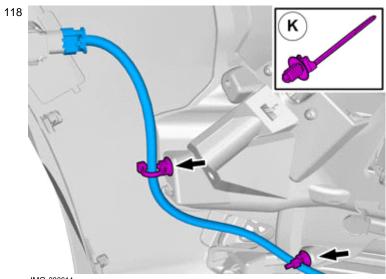
Adjust the position of the wiring harness.

Tighten the cable ties.

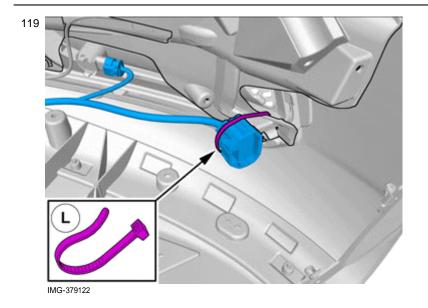




Volvo Car Corporation Gothenburg, Sweden

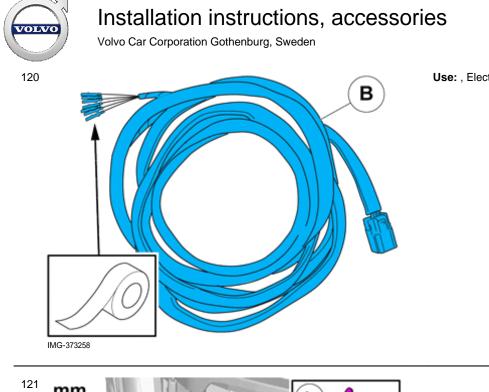


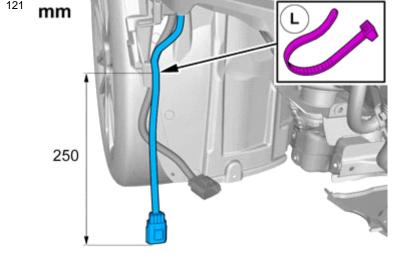
IMG-380614



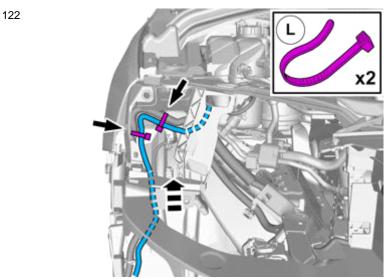
Repeat on the other side.

Left hand drive vehicles





IMG-382238



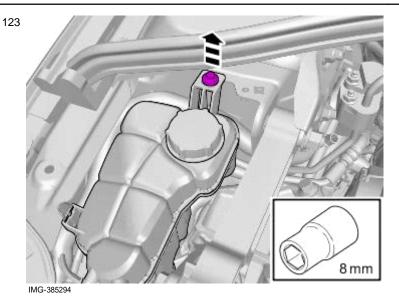
IMG-382240

Use: , Electrical tape

Route the cable harness to the existing cable harness.

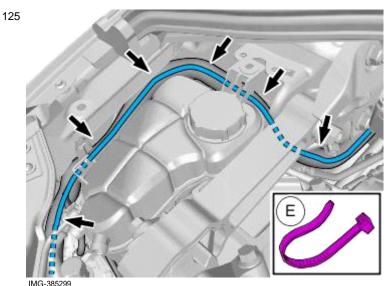


Volvo Car Corporation Gothenburg, Sweden



Remove the screw.

124 We state the state of the s



© Volvo Car Corporation

Remove the marked part.

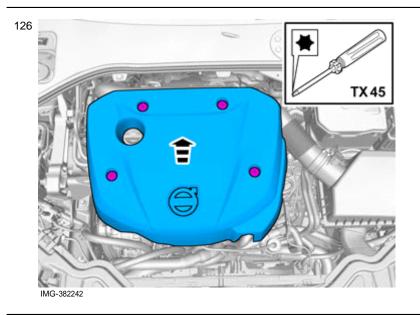
Route the cable harness to the existing cable harness.



127

### Installation instructions, accessories

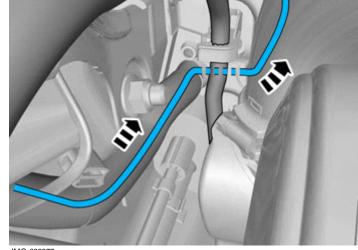
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Remove the screws.

Remove the marked part.

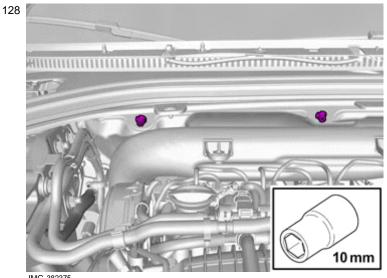
Route the cable harness to the existing cable harness.



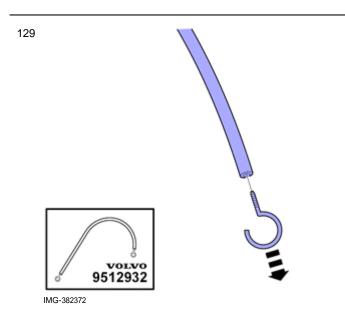
IMG-382377



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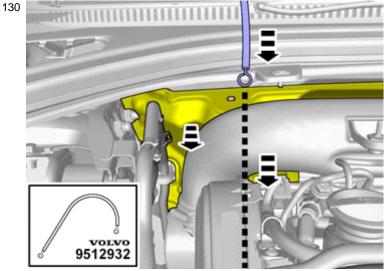


IMG-382375



Use special tool: T9512932, Tension spring

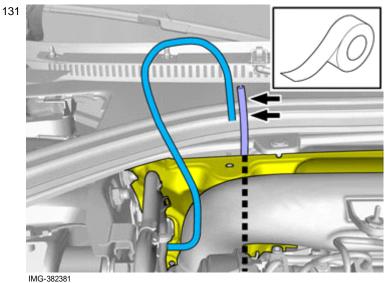
Remove the nuts.



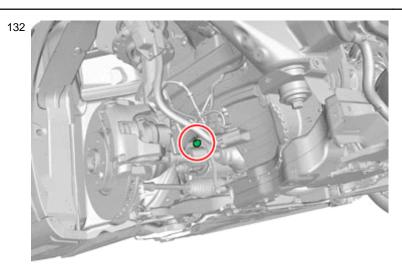
IMG-382378



Volvo Car Corporation Gothenburg, Sweden



IMG-38238



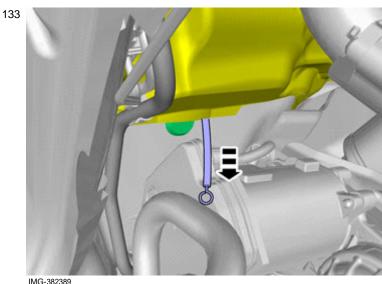
Use: , Electrical tape

Note! Orientation view

Note!

On some markets the rubber grommet may be covered by the heat shield.

IMG-382388

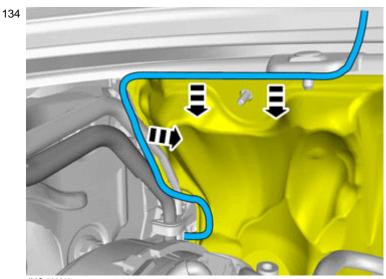


IMG-382389 © Volvo Car Corporation Pull the wiring through.

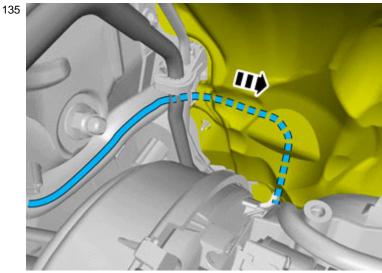
Remove the Special Tool.



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IMG-382392



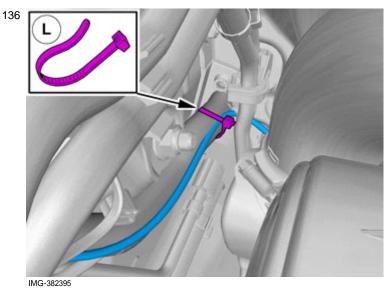
IMG-382393

Position/route the cable harness as illustrated.

Position/route the cable harness as illustrated.



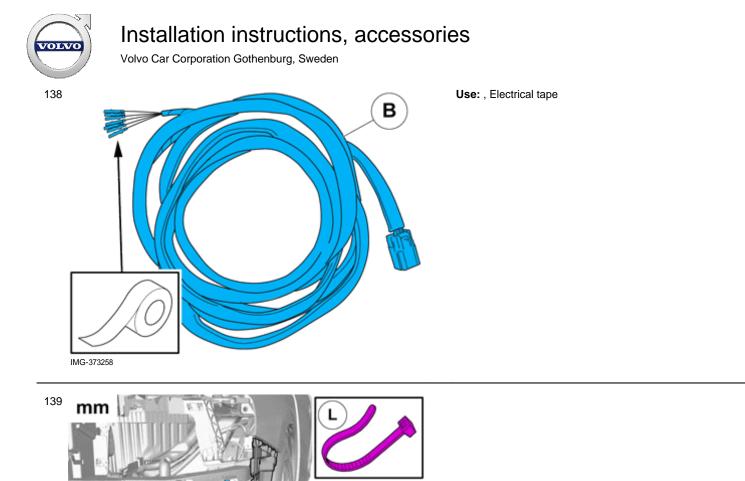
Volvo Car Corporation Gothenburg, Sweden



IMG-382399

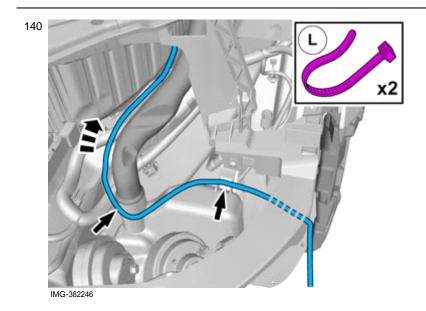
Pull the wiring through.

**Right-hand drive vehicles** 



250

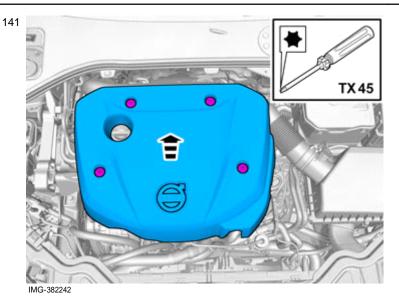
IMG-382245



Position/route the cable harness as illustrated.



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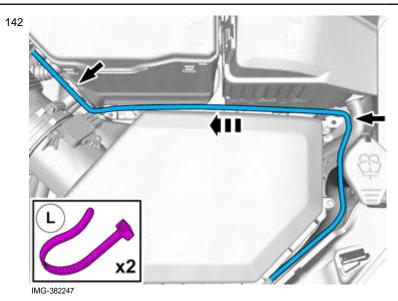


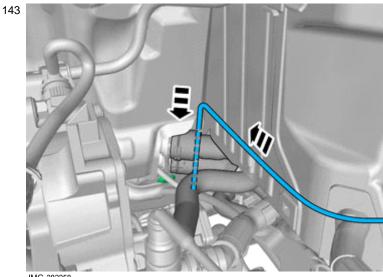
Remove the screws.

Remove the marked part.

Position/route the cable harness as illustrated.

Position/route the cable harness as illustrated.

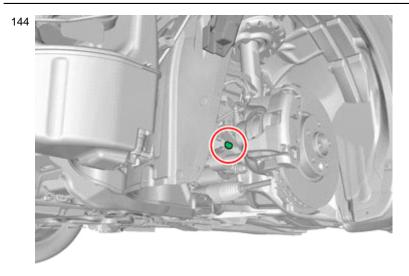




IMG-382258 © Volvo Car Corporation



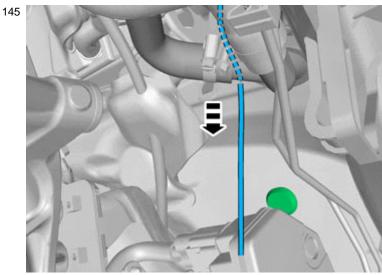
Volvo Car Corporation Gothenburg, Sweden



Note!

Orientation view

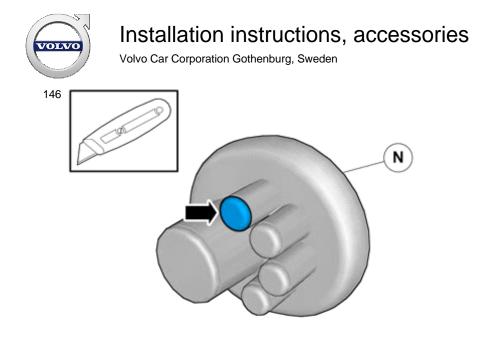
IMG-382262



Pull the wiring through.

IMG-382261

All vehicles



IMG-372722

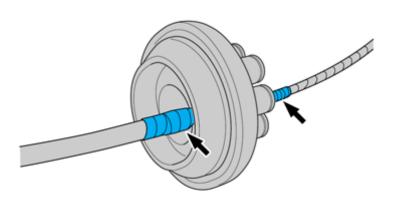
147

Pull the wiring through.



#### IMG-382174

148



Place the component where indicated in the graphic.

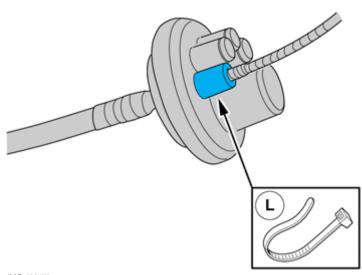
IMG-382176



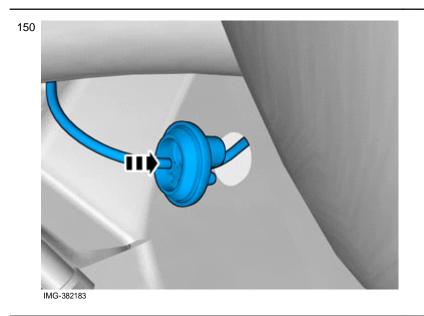
149

# Installation instructions, accessories

Volvo Car Corporation Gothenburg, Sweden



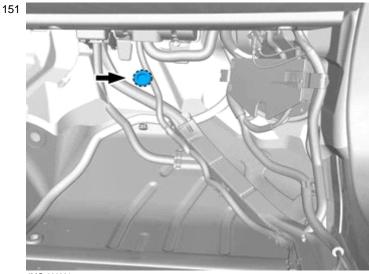
IMG-382175



#### Note!

Push the rubber grommet well through the hole.

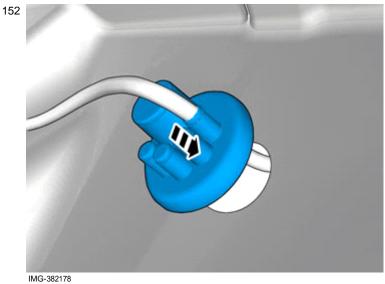
Pull the wiring through.



IMG-396281 © Volvo Car Corporation Note! Orientation view

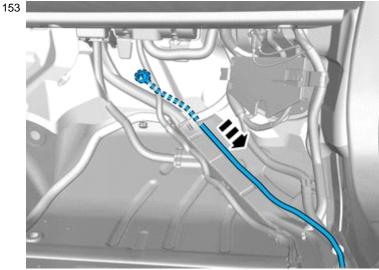


Volvo Car Corporation Gothenburg, Sweden



Caution!

Make sure that the rubber grommet seals properly to the body.



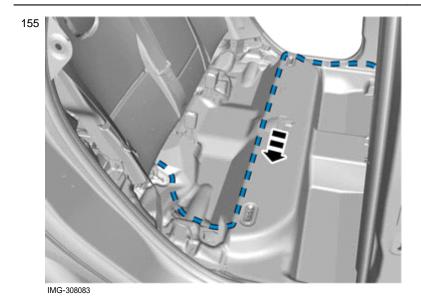
Position/route the cable harness as illustrated.

IMG-396275



Position/route the cable harness as illustrated.

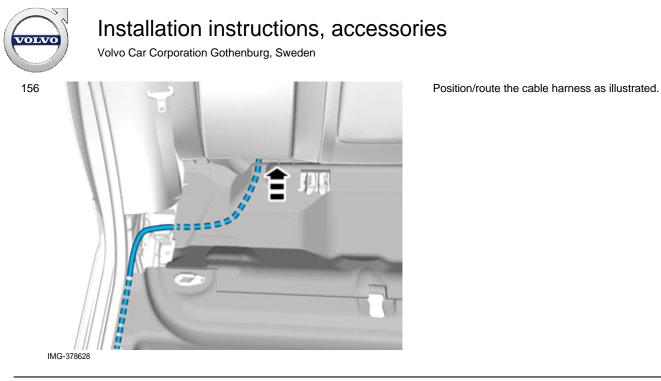
IMG-396277

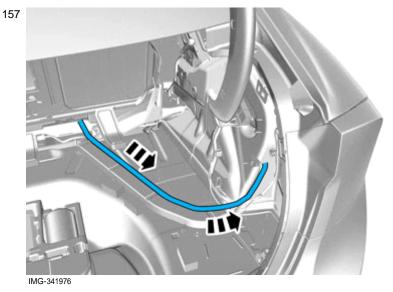


#### **Right-hand drive vehicles**

Position/route the cable harness as illustrated.

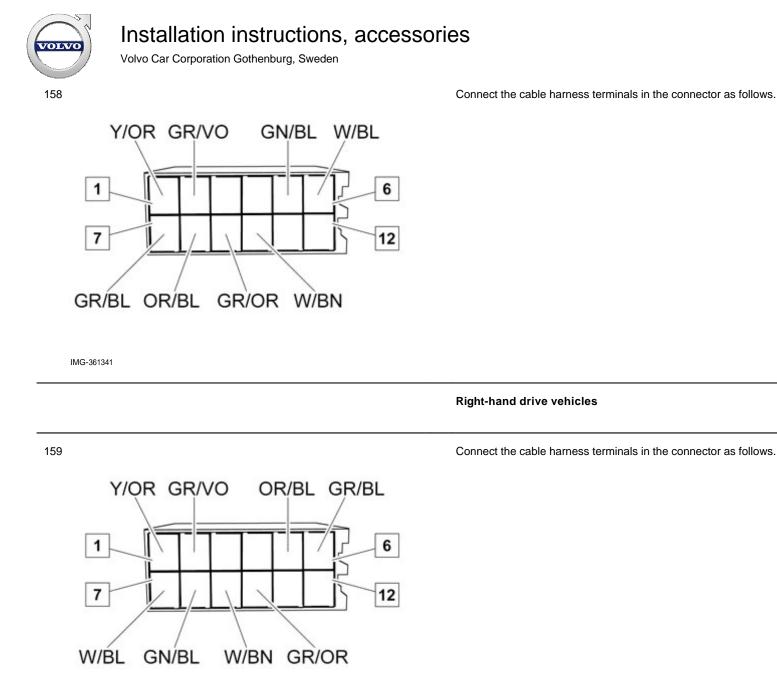
All vehicles





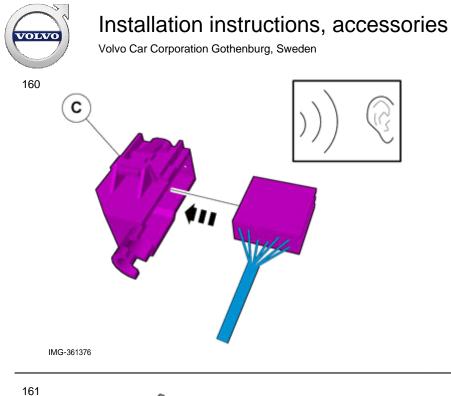
Position/route the cable harness as illustrated.

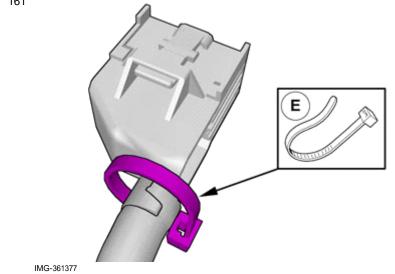
Left hand drive vehicles

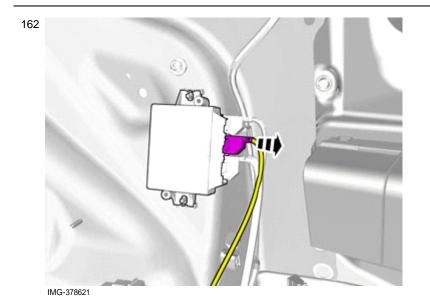


IMG-361342

All vehicles







Disconnect the connector, if applicable.

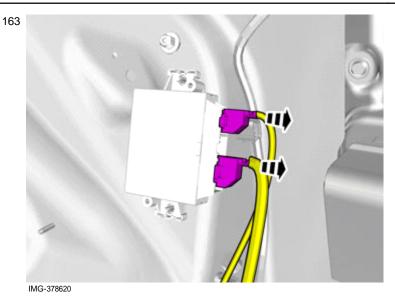
Attach the connector to the wiring harness.

Use: , Electrical tape

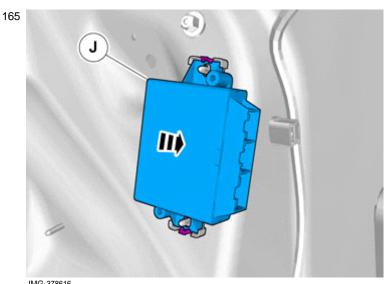
The connector is not to be used.



Volvo Car Corporation Gothenburg, Sweden



164 (III) IMG-378617



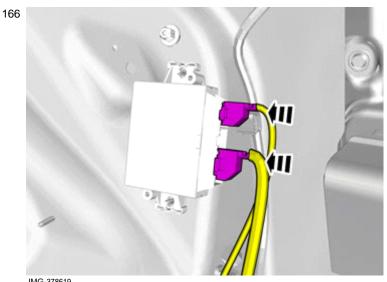
IMG-378616 © Volvo Car Corporation Disconnect the connectors.

The part is not to be reused.

Install component that comes with the accessory kit.

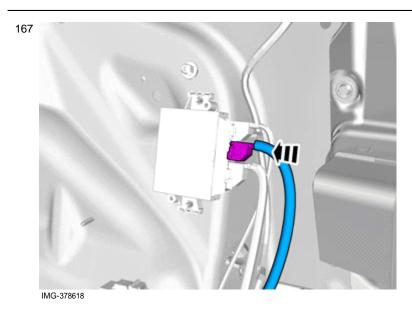


Volvo Car Corporation Gothenburg, Sweden

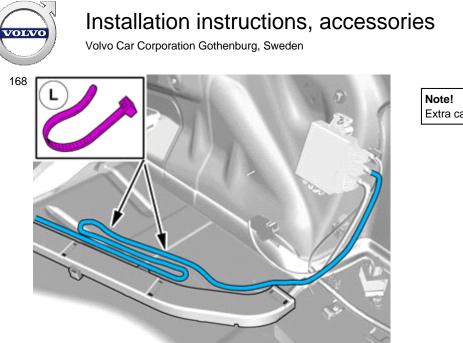


Connect the connectors.

IMG-378619

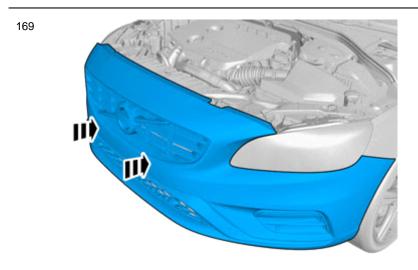


Connect the prerouted cable.



Extra cable length must be secured using cable ties.

IMG-378630



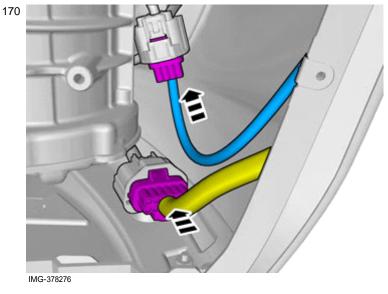
Place the Bumper Cover in position for installation.

IMG-379130

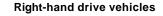
#### Left hand drive vehicles

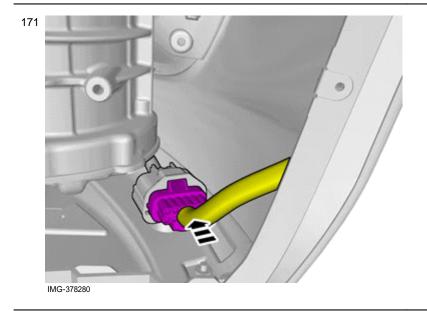


Volvo Car Corporation Gothenburg, Sweden

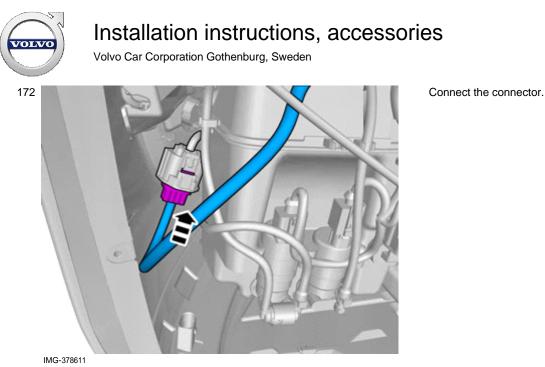


Connect the connectors.

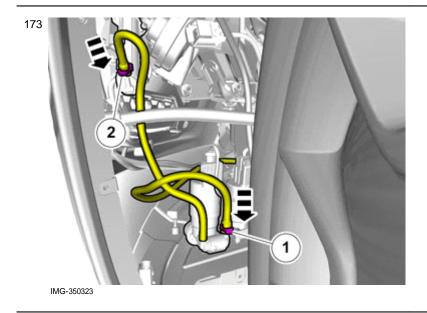




Connect the connector.

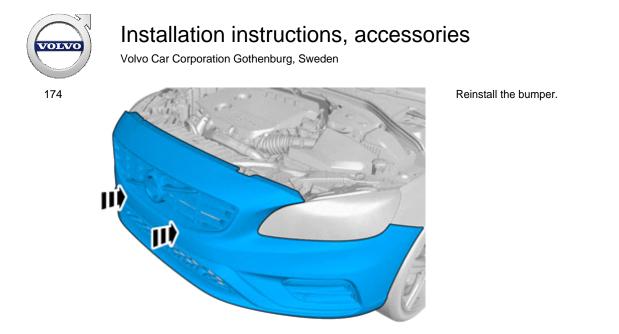


#### Vehicles with headlamp washers



Reinstall the removed parts in reverse order.

All vehicles

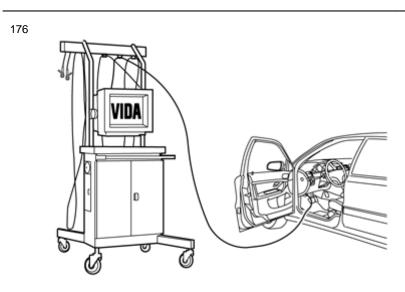


IMG-379130

175

Reinstall the removed parts in reverse order.

IMG-377070



IMG-242268

Download software (application) for the accessory's function

according to the service information in VIDA.



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